

Amphenol

COMMUNICATIONS SOLUTIONS

FFC/FPC Connector

Nov 2024



Target Application of FFC/FPC Connector



Consumer

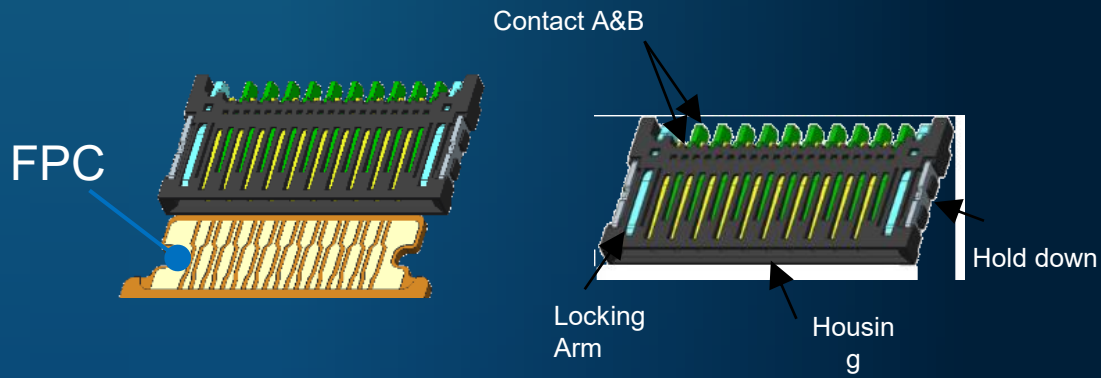


Automotive



Industrial / Medical





Prototype Prepared

F01C series

- 1) Contact spacing : 0.21mm
- 2) Number of contacts : 11pin
- 3) FPC thickness: 0.18+/-0.03mm
- 4) Low profile (height) : 0.5mm
- 5) Easy operation: Non-ZIF One action/Auto locking
- 6) High cable retention feature with Locking Arm
- 7) The basic design can be expanded to different pitch products
- 8) Application in Wearables, Mobile Phone etc.

Lowest Profile
solution

Samples available

Patent application is
being processed

0.3mm Pitch Low Profile FPC ZIF Connector

F13S/F14D series

APPLICATION

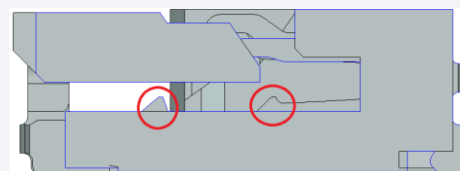
Mobile phone, DSC & DVC, Display etc.

SPECIFICATIONS

- 1) Pitch: contact 0.3 mm
- 2) Number of count: 11 to 61 contacts
(Available: 11,13,15,19,21,23,25,31,33,35,37,39,41,45,51,61)
- 3) FPC thickness: 0.2 +/-0.03
- 4) Materials :
 - Insulator : heat-resisting resin (UL 94V-0)
 - Contact / Fixing tab : Copper Alloy

FEATURES

- 1) Low profile (Bottom: 1.0 mm)
- 2) Provide multiple contact points
- 3) High cable retention feature
- 4) To prevent soldering and flux wicking (Adoption of Ni barrier)
- 5) Halogen free

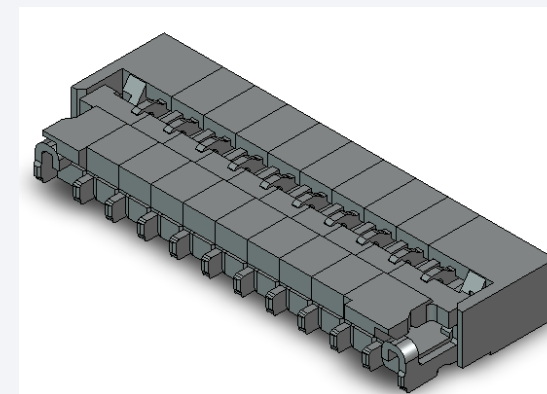


Multiple contact points

PRODUCT NUMBER

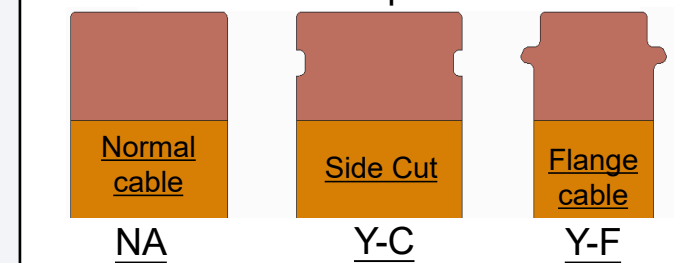
Mating with flange cable: F13S-1A7H1-E8C**

Mating with normal cable: F14D-1A7H1-E8C**



P0.3 Bottom side contact type
Height of connector: 1.0mm

Cable lock specifications



High speed-Flex series



APPLICATION

Note PC, SSD, Server,
Broadband equipment etc.



SPECIFICATIONS

1) **Pitch:** Contact position 0.3 mm (In-Line)

2) **Number of contact:** 40pins

Pin Layout: GSSGSSG....

Differential Pair: 13 pairs (40pos)

3) **Impedance matching**

100/90/85 Ω

4) **High Speed Capability**

10 Gbps (polyimide FPC)

25 Gbps (LCP FPC)

5) **Connector height**

1.1+/-0.05mm

6) **FPC thickness**

0.2 +/-0.03



FEATURES

1) Bottom contact type, Back side flip,
High density, No shield, Right weight

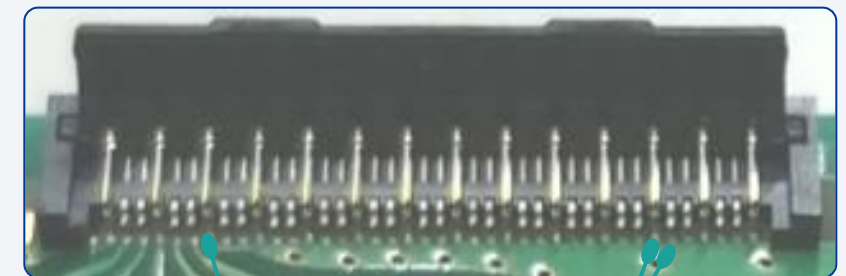
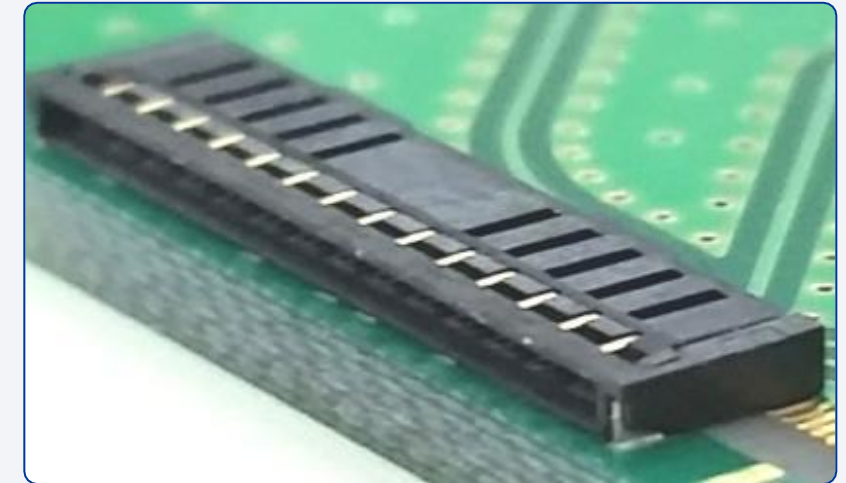
2) It corresponds to the high-speed
signal of 25 Gbps

3) High cable retention force system
(Cable lock function available)

4) Design against solder & flux
wicking (Adoption of Ni barrier)

P/N : F14J-1B7H1-E7C40

Patented Layout



Ground Contact

Signal Contact

F21L series



APPLICATION

LCD display-Automotive



SPECIFICATIONS

- **Spacing:** 0.4mm
- **Contacts:** 80 to 120 contacts
- **Available:** 120p
- **Height:** 2.5 mm
- **FPC thickness:** 0.3 +/-0.03mm
- **Materials:**

Insulator: heat-resisting resin (UL 94V-0)
Contact: Phosphor Bronze (Gold flash)
Fixing tab: Brass (Tin Plate)

- **Current rating:** AC/DC 0.4A
- **Voltage rating:** AC/DC 50V
- **Contact resistance:** 40mΩ Max.
- **Insulation resistance:** 100MΩ Min.
- **Operation Temperature range:** -40 to 105 degree
- **Durability:** 30cycles



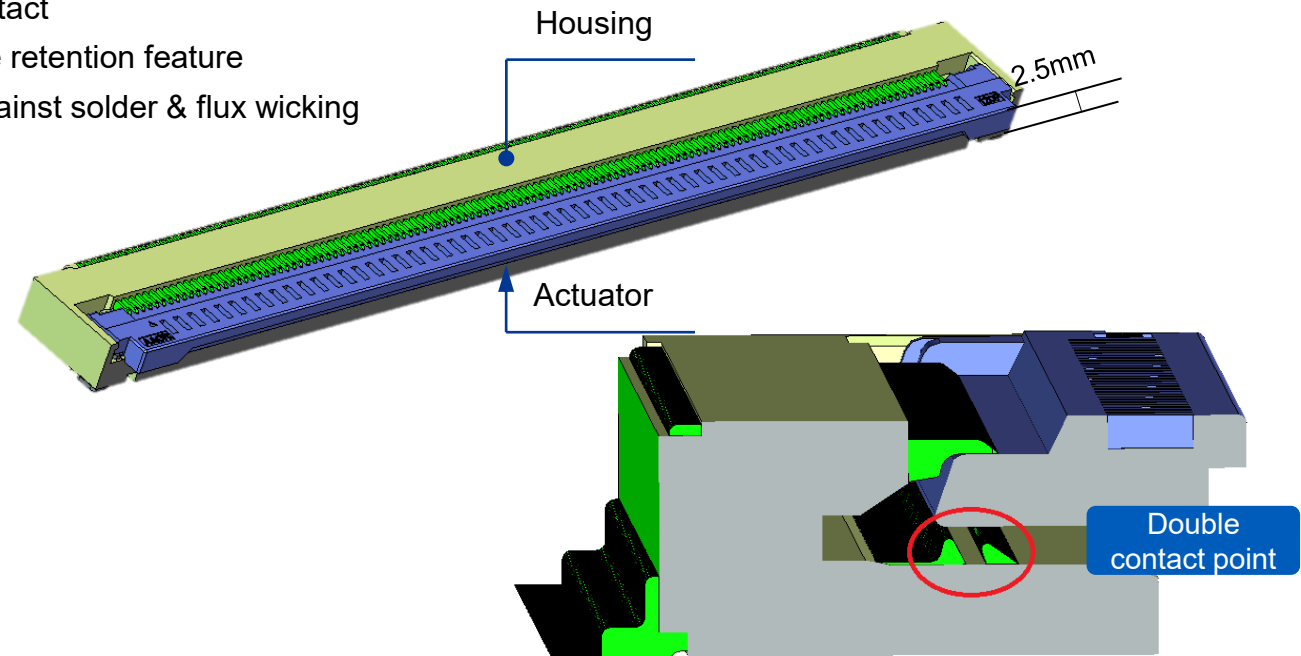
FEATURES

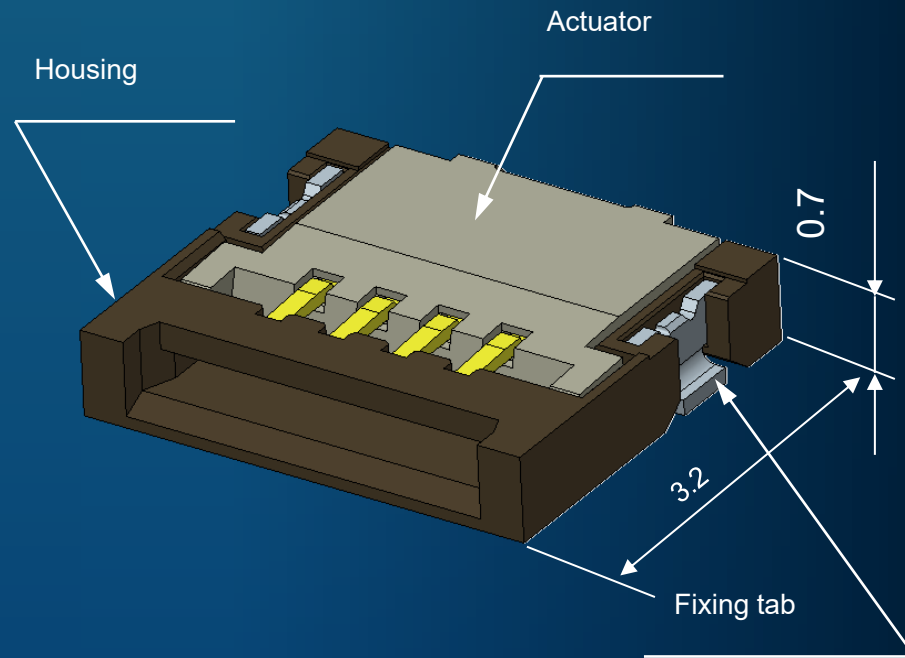
- Front Flip actuator, Easy handling cable insertion and one-touch lock
- Robustness design of high pin count
- Contact Direction: Bottom side , double points contact
- High cable retention feature
- Design against solder & flux wicking

PRODUCT NUMBER

F21L-1A7*1-110-E*00**

PIN_CONT





MP STATUS FOR 4/6PIN

F33D series

- 1) Contact spacing : 0.5mm
- 2) Number of contacts : 4 to 10pin (available: 4, 6)
- 3) FPC thickness: 0.12+/-0.03mm
- 4) Low profile (height): 0.7mm
- 5) One touch lock mechanism by back flip
- 6) High cable retention force system
- 7) Easy handling cable insertion (expanded Housing entry portion)
- 8) Application in VR headset, smart phone, Tablet PC, Wearable facilities etc.

0.5mm Pitch Flip Type ZIF Connector

F331 series

APPLICATION

Notebook, printer, display, Smart speaker, Sound bar
Navigation device, coffee machine etc.

SPECIFICATIONS

- 1) Spacing: 0.5mm
- 2) Contacts: 4 to 45 contacts(available: 4,6,7,8,9,10,12,14,15,16,17,18,20,22,24,26,30,34,36,40)
- 3) Height: 1.0mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fix tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 100mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 85°C
- 11) Durability: 20cycles

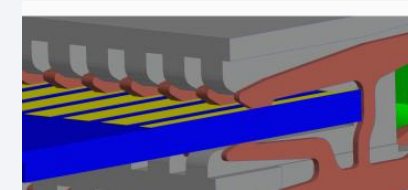
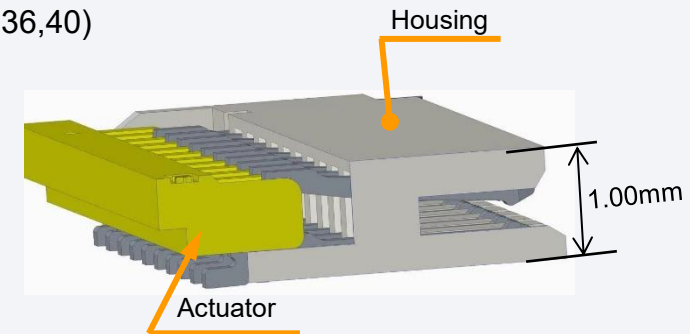
FEATURES

- 1) Back side Flip actuator, Easy handling cable insertion and One-touch lock
- 2) Robustness design
- 3) Contact Direction: Double side
- 4) High cable retention feature
- 5) Design against solder & flux wicking

PRODUCT NUMBER

F331-1A7*1-210**-E200

PIN_CONT



Double side contact type

0.5mm Pitch Flip Type ZIF Connector

F300/F301 series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

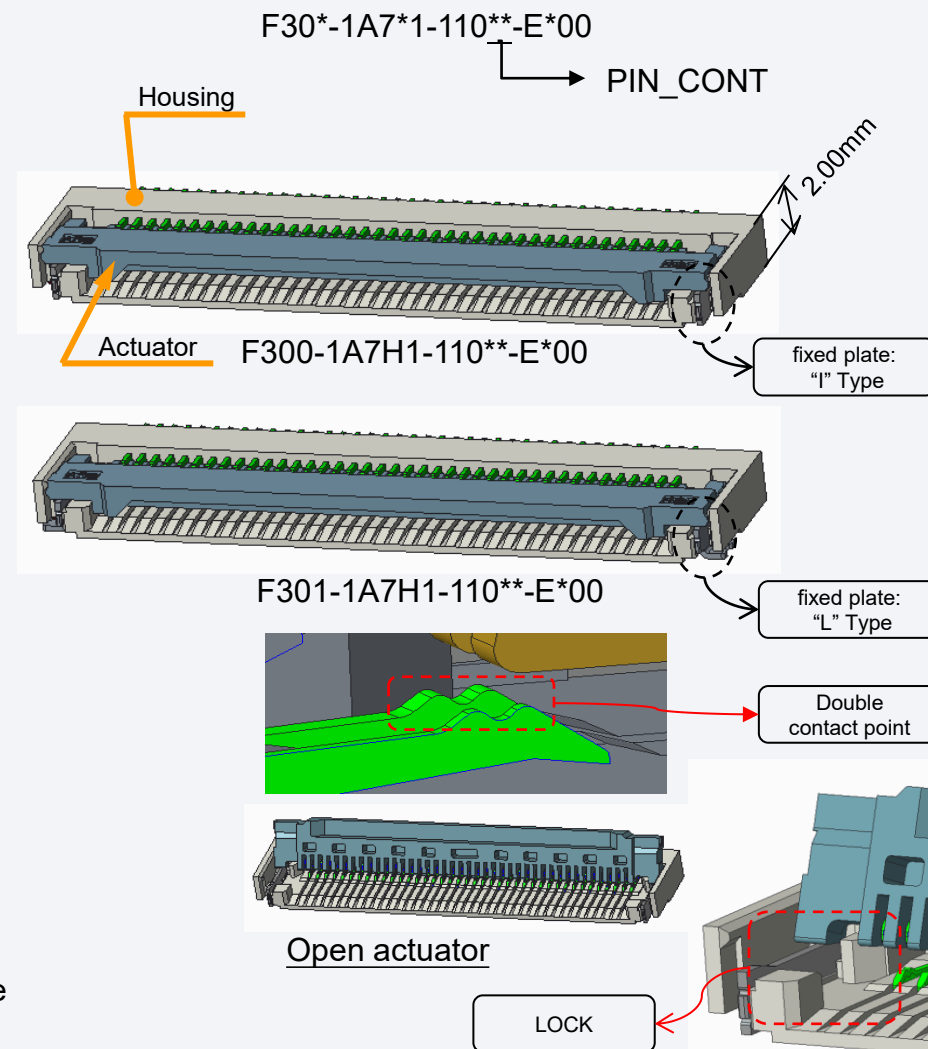
SPECIFICATIONS

- 1) Spacing: 0.5mm
- 2) Contacts: 6 to 60 contacts
(Available: 6,8,10,15,16,17,18,20,22,26,30,32,33,34,36,40,50,60p)
- 3) Height: 2.0mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105°C
- 11) Durability: 30cycles

FEATURES

- 1) Front side Flip actuator, Easy handling cable insertion and One-touch lock
- 2) Robustness design with lock function
- 3) Contact Direction: Bottom side ,one beam & Double contact point
- 4) High cable retention feature, The fixed plate can be divided into “L” type and “I” type
- 5) Design against solder & flux wicking

PRODUCT NUMBER



0.5mm Pitch Flip Type ZIF Connector

F305 series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

- 1) Spacing: 0.5mm
- 2) Contacts: 6 to 60 contacts
(Available: 6,10,14,15,20,21,22,24,40,45,50,60,70)
- 3) Height: 2.0mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105°C
- 11) Durability: 30cycles

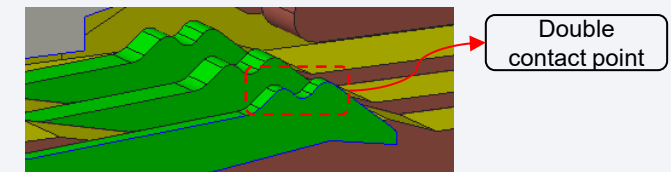
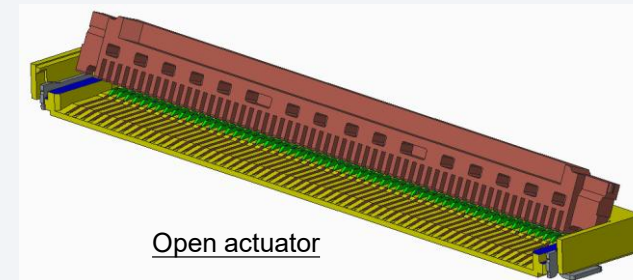
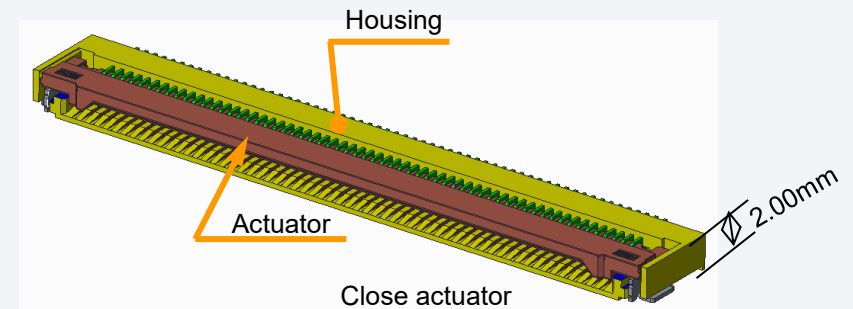
FEATURES

- 1) Front side Flip actuator, Easy handling cable insertion and One-touch lock
- 2) Robustness design
- 3) Contact Direction: Bottom side, One beam & Double contact point
- 4) High cable retention feature
- 5) Design against solder & flux wicking

PRODUCT NUMBER

F305-1A7*1-110**-E*00

PIN_CONT



0.5mm Pitch Flip type ZIF Connector

F304 series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

- 1) Spacing: 0.5mm
- 2) Contacts: 6 to 60 contacts
(Available: 6,10,12,40,50,60)
- 3) Height: 2.5mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: Initial 30mΩ Max, After 80mΩ Max
- 9) Insulation resistance: 100MΩ Min.
- 10) Operation Temperature range: -40 to 105°C
- 11) Durability: 20cycles

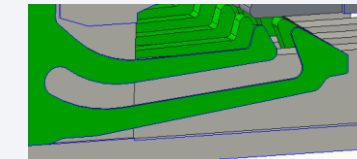
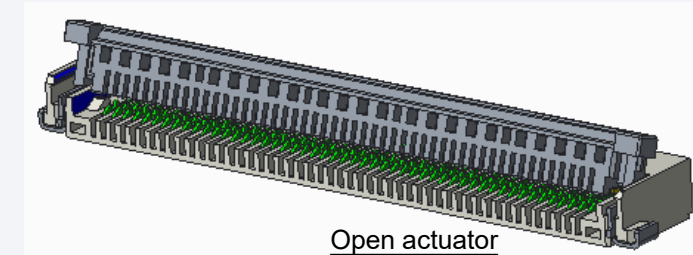
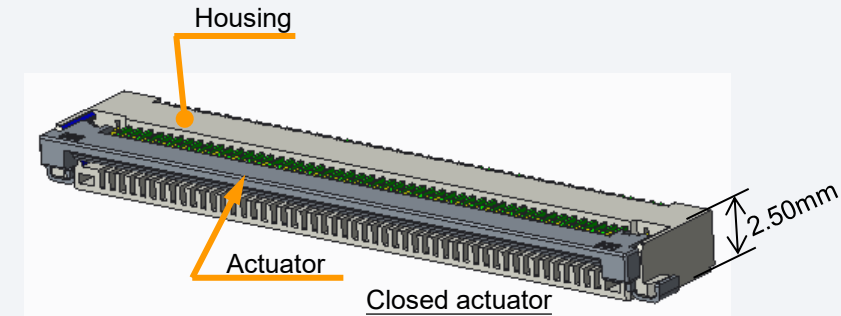
FEATURES

- 1) Front side Flip actuator, Easy handling cable insertion and One-touch lock
- 2) Robustness design with lock function
- 3) Contact Direction: Bottom side, Double beam & Dual contact point
- 4) High cable retention feature
- 5) Design against solder & flux wicking

PRODUCT NUMBER

F304-1A7*1-110**-E*00

PIN_CONT



Double beam & Dual contact point

0.5mm Pitch Flip type ZIF Connector

F31L series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

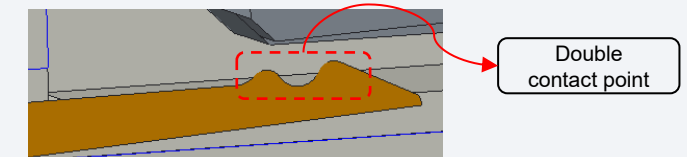
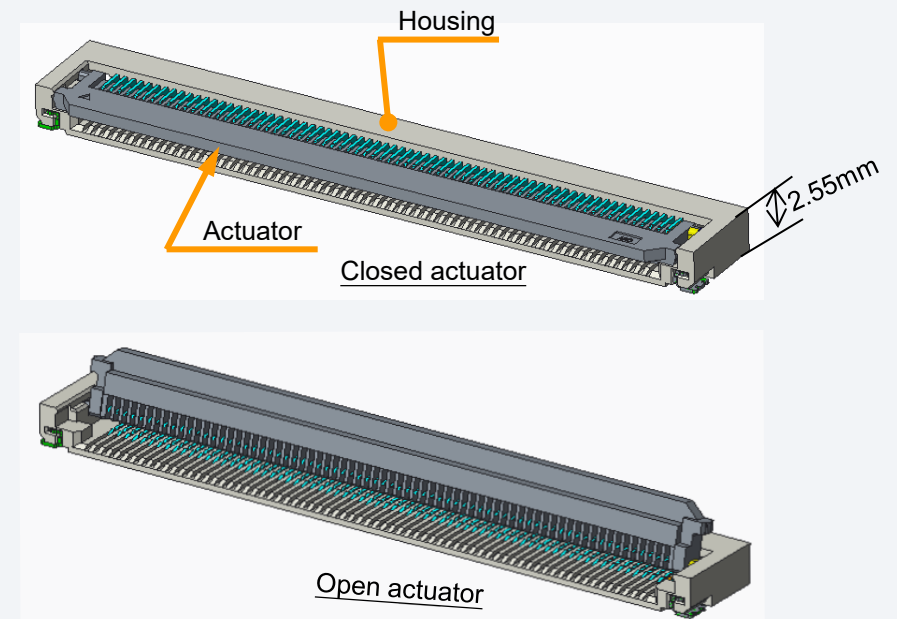
- 1) Spacing: 0.5mm
- 2) Contacts: 4 to 80 contacts
(Available: 6,8,9,10,11,12,15,16,20,24,25,28,30,33,40,41,45,50,55,57,60,64,68,70,80)
- 3) Height: 2.55 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 125°C
- 11) Durability: 30cycles

FEATURES

- 1) Front side Flip actuator, Easy handling cable insertion and One-touch lock
- 2) Robustness design with lock function
- 3) Contact Direction: Bottom side, Double contact point
- 4) High cable retention feature
- 5) Design against solder & flux wicking
- 6) **USCAR-2 T3V2**

PRODUCT NUMBER

F31L-1A7*1-110**-E*00
└─┬─> PIN_CONT



0.5mm Pitch Slider type ZIF Connector

F32R/F32Q series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

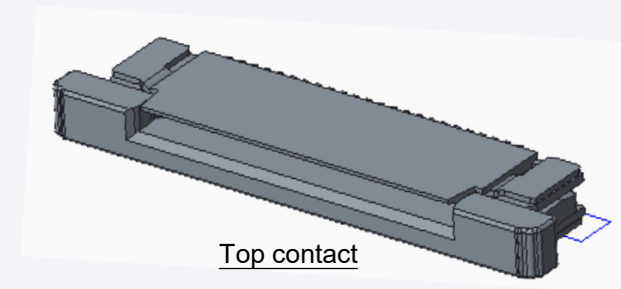
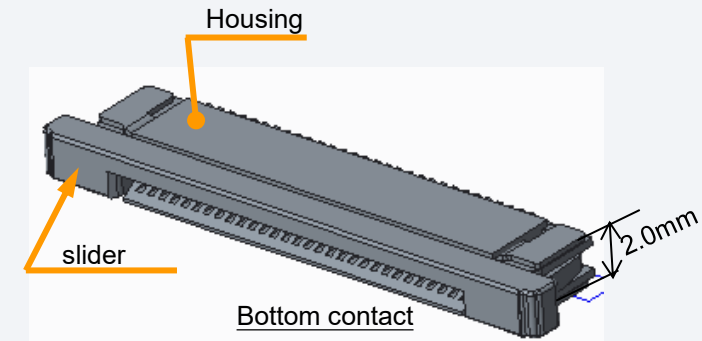
- 1) Spacing: 0.5mm
- 2) Contacts: 4 to 70 contacts
(Available: 4,6,7,8,9,10,11,12,14,15,16,17,18,19,20,21,22,23,24,26,28,30,31,32,33,34,36,40,45,48,50,54,55,57,60,70)
- 3) Height: 2.0mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105°C
- 11) Durability: 30cycles

FEATURES

- 1) Drawer type structure, Horizontal type
- 2) Robustness design
- 3) Contact Direction: Bottom Contact and Top contact
- 4) High cable retention feature
- 5) Design against solder & flux wicking

PRODUCT NUMBER

F32*-1A7*1-110**
2R:Bottom contact ← PIN_CONT
2Q:Upper contact →



0.5mm Pitch Non-ZIF Connector Auto-Lock F33M/F332 series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

- 1) Contact spacing: 0.5mm
- 2) Contacts: 6 to 68 contacts (available: 6,8,10,12,14,20,22,26,30,40,41,50,60)
- 3) Height: 2.45mm
- 4) Applicable flex: 0.33t with GND shielded, 100Ω
- 5) Flex Retention Force: 25N
- 6) Profile X,Y,Z (mm): e.g. @6pos: (X) 10.2mm, (Y) 4.95mm, (Z) 2.5mm, (X) (n-1)x0.5+7.7mm
- 7) Current rating: AC/DC 0.5A
- 8) Voltage rating: AC/DC 50V
- 9) Contact resistance: (Initial) 60mΩ max., (final) 40mΩ max.
- 10) Insulation resistance: 100MΩ Min.
- 11) Operation Temperature range: -55 to 125°C
- 12) Durability: 20cycles

FEATURES

- 1) Right angle, Easy operation with Non-ZIF function
- 2) 25N MIN retention force enabled with a revolutionary locking system
- 3) Data rate / Impedance: 5Gbps / 100Ω
- 4) Locking feature: Single action Push Auto Locking Function
 - * A feeling of clear click at the time of the insertion
- 5) Unlocking feature: Dual action press and release locking mechanism
- 6) **USCAR-2 T3V2**



PRODUCT NUMBER

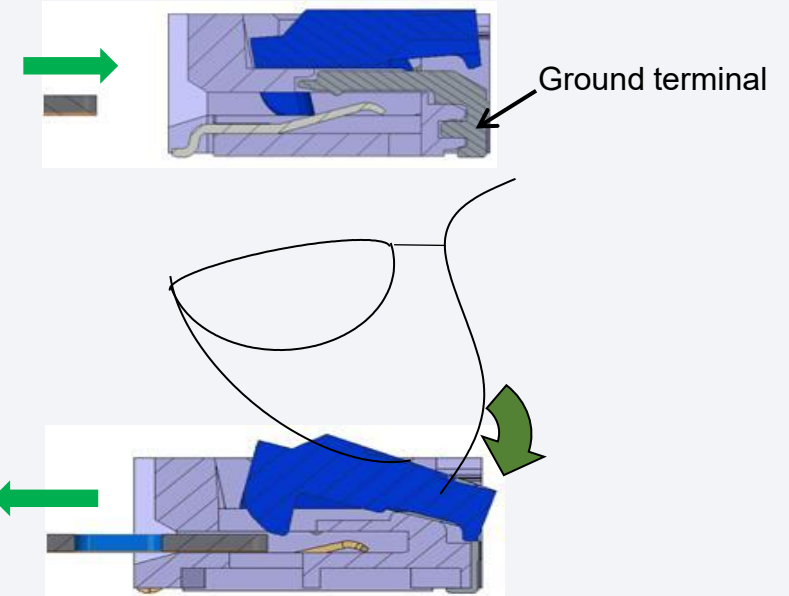


F33M-1B7*1-210**-E200

Pin count

F332-1A7*1-E7C**

Pin count



0.5mm Pitch Non-ZIF Connector

Auto-Lock F323 series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

- 1) Pitch/height: 0.5mm/4.85mm
- 2) Number of contacts: 10 to 60 contacts(available: 12,36,40,50,60)
- 3) Current rating: AC/DC 0.5A
- 4) Voltage rating: AC/DC 50V
- 5) Applicable flex: 0.33t with GND shielded, 100Ω+/-10Ω@0.33t
- 6) Flex Retention Force: 25N MIN. @ 0.33t Flex
- 7) Operation temperature: -55°C~+125°C
- 8) Durability: 20cycles

FEATURES

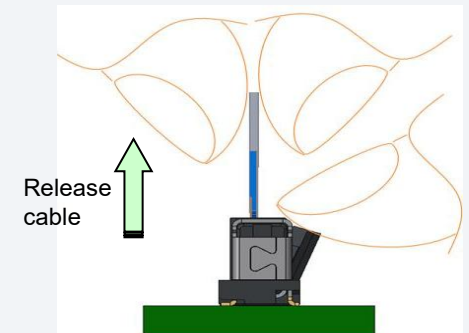
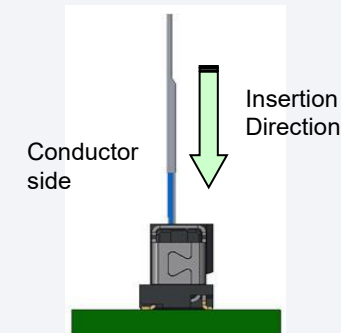
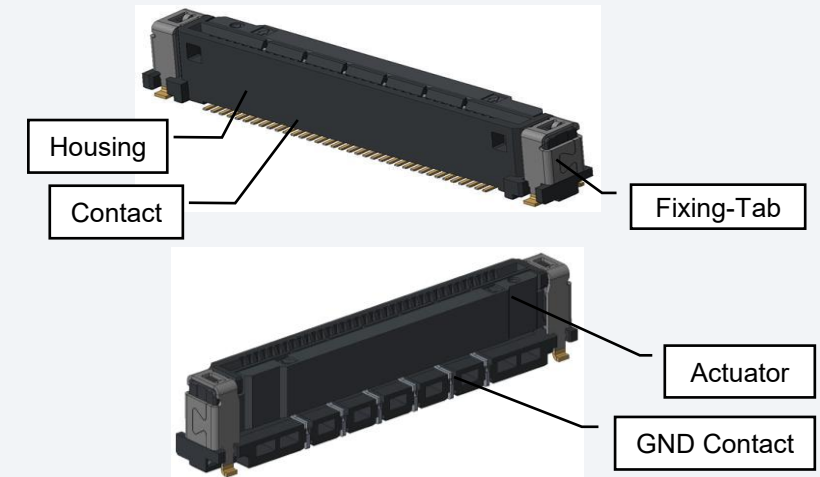
- 1) Vertical, Easy operation with Non-ZIF function
- 2) Data rate / Impedance: 5Gbps / 100Ω
- 3) Locking feature: Single action Push Auto Locking Function
 - * A feeling of clear click at the time of the insertion
- 4) Unlocking feature: Push the Actuator obliquely downward, Push middle of the lever with fingers
- 5) **USCAR-2 T3V2**

PRODUCT NUMBER

F323-1B7*1-210**-E200

Pin count

USCAR



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PRODUCT NUMBER

F31S-1A7*1-110**
└─┬→PIN_CONT

-
- The image displays a 3D CAD model of a connector housing, showing its internal structure and components. The model is presented in two states: **Unlock Status** (top) and **Lock Status** (bottom).
- Unlock Status:** The top view shows the housing with a yellow **Actuator** and a green **Housing** component. The housing is shown in a partially open position, revealing the internal pins. A dimension line indicates a height of **5.8mm**.
- Lock Status:** The bottom view shows the housing in a closed position, with a yellow **Lock** component visible. The housing is shown in a fully closed position, with the pins covered by the lock.

A diagram showing a rock joint with a yellow rock mass and a green joint surface. A red dashed line indicates a 'Double contact point' where the joint surface intersects the rock mass. A red arrow points from the text 'Double contact point' to the dashed line.

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0.5mm Pitch Slider type ZIF Connector F31Z/F31W/F314/F336 series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

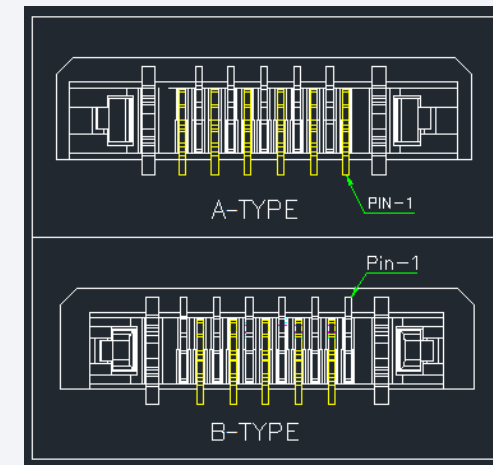
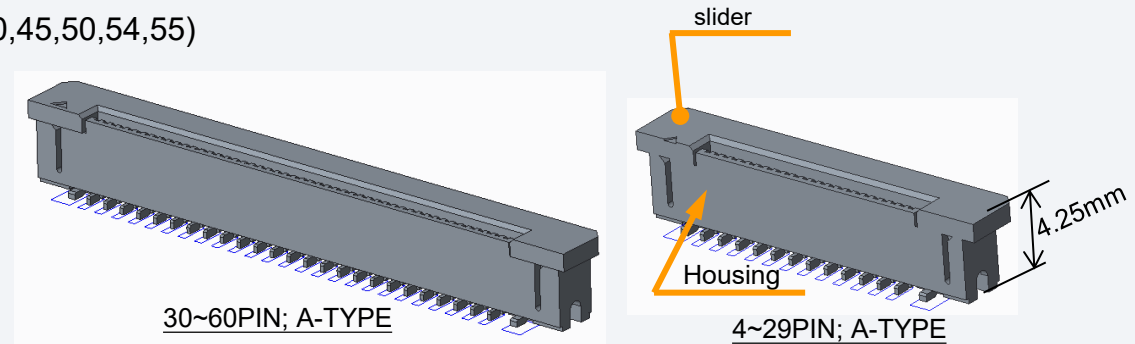
- 1) Spacing: 0.5mm
- 2) Contacts: 4 to 60 contacts
(Available: 5,6,8,9,10,11,12,14,15,16,18,20,21,22,24,25,26,30,32,33,34,36,40,45,50,54,55)
- 3) Height: 4.25 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin (UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105 degree
- 11) Durability: 30cycles

FEATURES

- 1) Drawer type structure, Vertical type, Distinguish between "A_TYPE" and "B_TYPE"
- 2) Robustness design
- 3) Contact Direction: Bottom Contact
- 4) High cable retention feature
- 5) Design against solder & flux wicking

PRODUCT NUMBER

F3**-1A7*1-110**
1Z: A_Type (4~29P, With Mylar) ← PIN_CONT
1W:A_Type(4~29P, Without Mylar)
14: A_Type (30~60P, With Mylar)
36:A_Type(30~60P, Without Mylar)



0.5mm Pitch Non-ZIF type Connector

F31G/F31K/F32P/F32Y series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

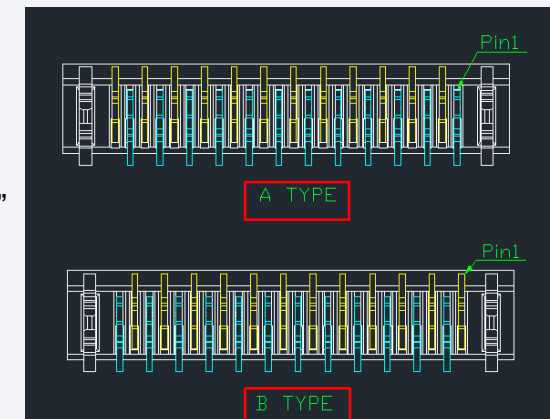
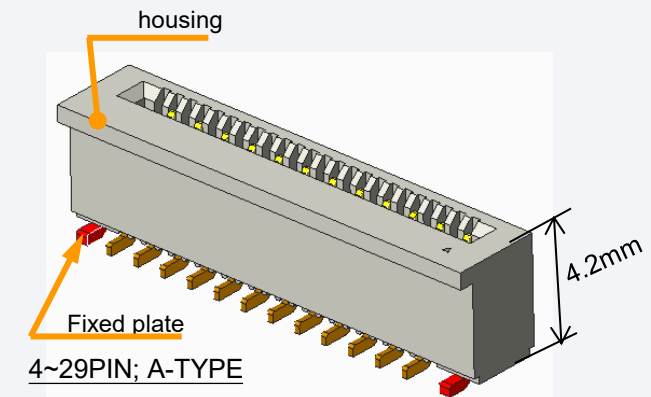
- 1) Spacing: 0.5mm
- 2) Contacts: 4 to 60 contacts (Available: 6,7,8,10,12,20,22,24,25,28,30,32,34,40,45)
- 3) Height: 4.2 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105 degree
- 11) Durability: 30cycles

FEATURES

- 1) Directly insert FFC structure, Simple operation, Distinguish between "A_TYPE" and "B_TYPE"
- 2) Robustness design
- 3) Contact Direction: Bottom Contact
- 4) High cable retention feature
- 5) Design against solder & flux wicking

PRODUCT NUMBER

F3**-1A7*1-110**-B*00
← PIN_CONT →
1G: A_Type
1K: B_Type
2P: B_Type
2Y: A_Type



1.0mm Pitch Flip type ZIF Connector

F51L series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATION

- 1) Spacing: 1.0mm
- 2) Contacts: 4 to 30 contacts
(Available: 4,5,6,7,8,10,12,13,14,15,16,18,20,22,24,28)
- 3) Height: 2.55 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105 degree
- 11) Durability: 30cycles

FEATURES

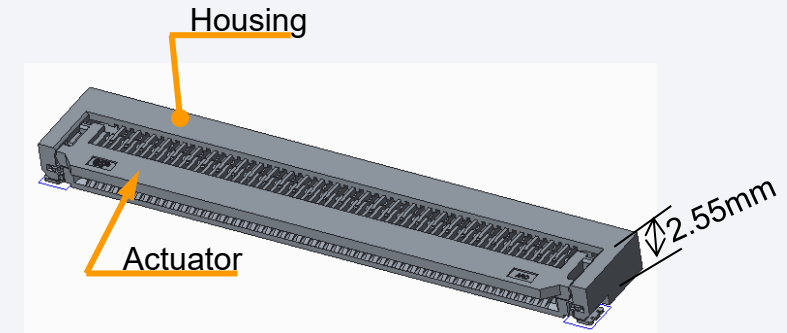
- 1) Front side Flip actuator, Easy handling cable insertion and One-touch lock
- 2) Robustness design with lock function
- 3) Contact Direction: Bottom side, Double contact point
- 4) High cable retention feature
- 5) Design against solder & flux wicking
- 6) **USCAR-2 T3V2**

PRODUCT NUMBER

F51L-1A7*1-110**-E*00

└─┬─> PIN_CONT

USCAR



1.0mm Pitch Slider type ZIF Connector

F514/F536 series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

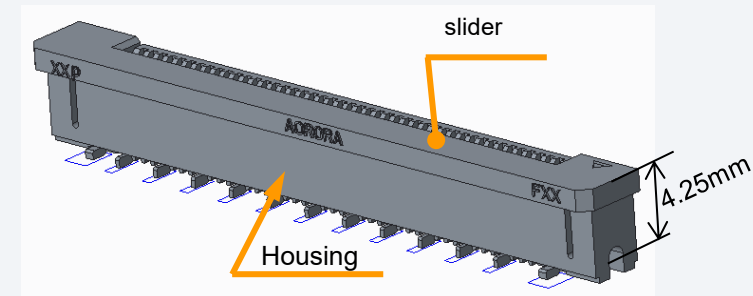
- 1) Spacing: 1.0mm
- 2) Contacts: 4 to 30 contacts
(Available: 18,20,22,30)
- 3) Height: 4.25 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105 degree
- 11) Durability: 30cycles

FEATURES

- 1) Drawer type structure, Vertical type, Distinguish between "A _TYPE" and "B _TYPE"
- 2) Robustness design
- 3) Contact Direction: Bottom Contact
- 4) High cable retention feature
- 5) Design against solder & flux wicking

PRODUCT NUMBER

F5**-1A7*1-110**
14: A _type (With Mylar) ← PIN_CONT
2A: B _type(With Mylar)
36: A _type(Without Mylar)
1A:B _type(Without Mylar)



1.0mm Pitch Slider type ZIF Connector

F52R/F52Q series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

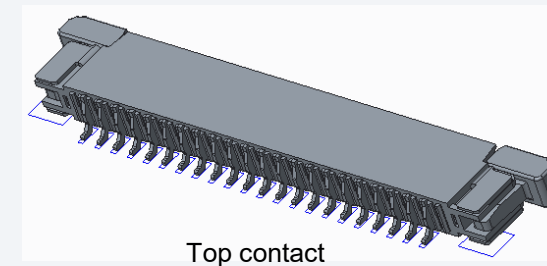
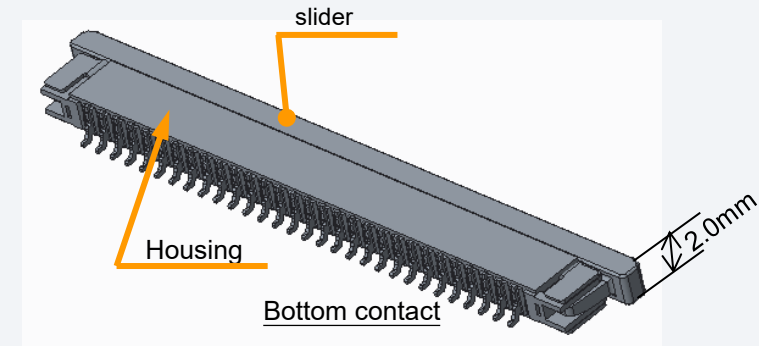
- 1) Spacing: 1.0mm
- 2) Contacts: 4 to 34 contacts
(Available : 4,6,7,8,9,10,12,13,14,15,16,17,18,20,22,25,26,28,30,32,34)
- 3) Height: 2.0 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105 degree
- 11) Durability: 30cycles

FEATURES

- 1) Drawer type structure, Horizontal type
- 2) Robustness design
- 3) Contact Direction: Bottom Contact and Top contact
- 4) High cable retention feature
- 5) Design against solder & flux wicking

PRODUCT NUMBER

F52*-1A7*1-110**
2R:Bottom contact ← → PIN_CONT
2Q:Upper contact



1.0mm Pitch Non-ZIF Type Connector

F52L/F52M series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

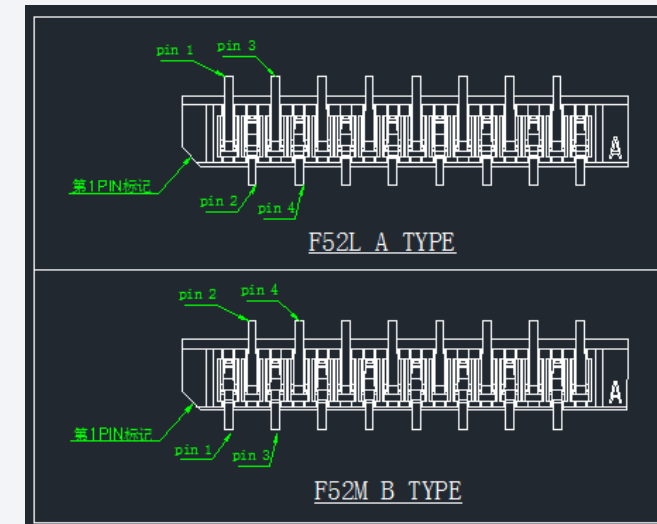
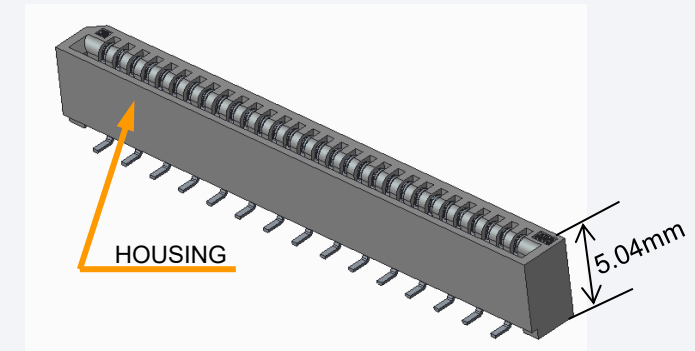
- 1) Spacing: 1.0mm
- 2) Contacts: 4 to 30 contacts
(Available: 4,5,6,7,8,9,10,11,12,13,14,15,16,18,19,20,22,23,24,30)
- 3) Height: 5.04 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy(Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105 degree
- 11) Durability: 30cycles

FEATURES

- 1) Directly insert FFC structure, simple operation,
- 2) Distinguish between "A_TYPE" and "B_TYPE"
- 3) Robustness design
- 4) Contact Direction: Bottom Contact
- 5) High cable retention feature

PRODUCT NUMBER

F52*-1A7*1-110**-B*00
2L : A_type ← PIN_CONT
2M: B_type →



1.0mm Pitch Non-ZIF Type Connector

F518/F519 series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

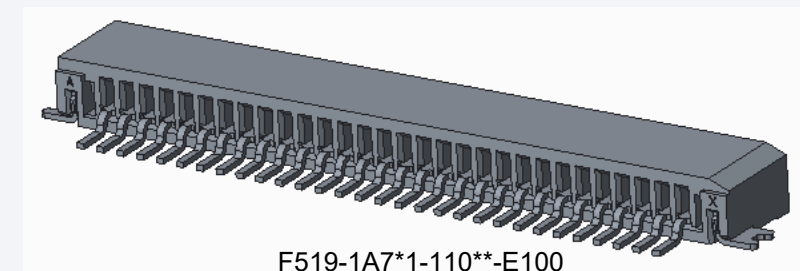
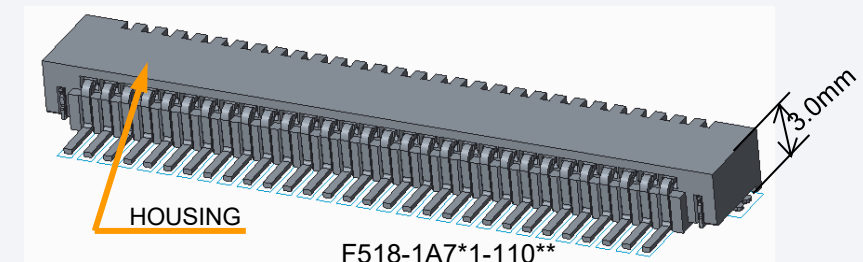
- 1) Spacing: 1.0mm
- 2) Contacts: 4 to 30 contacts
(Available: 4,5,6,7,8,10,11,12,14,16,19,22,23,30)
- 3) Height: 3.0 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
 - Fixing tab: Copper Alloy (Tin Plate)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105 degree
- 11) Durability: 30cycles

FEATURES

- 1) Directly insert FFC structure, simple operation,
- 2) Robustness design
- 3) Contact Direction: Bottom Contact and Top Contact
- 4) High cable retention feature

PRODUCT NUMBER

F51*-1A7*1-110**-B*00
18: Top contact ← PIN_CONT
19: Bottom contact →



1.0mm Pitch Slider type ZIF Connector

F54L series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

- 1) Spacing: 1.0mm
- 2) Contacts: 5 to 30 contacts
(Available: 12)
- 3) Height: 4.35 mm
- 4) FPC thickness: 0.3 +/-0.03mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
- 6) Current rating: AC/DC 0.5A
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: 30mΩ Max.
- 9) Insulation resistance: 500MΩ Min.
- 10) Operation Temperature range: -40 to 105 degree
- 11) Durability: 30cycles

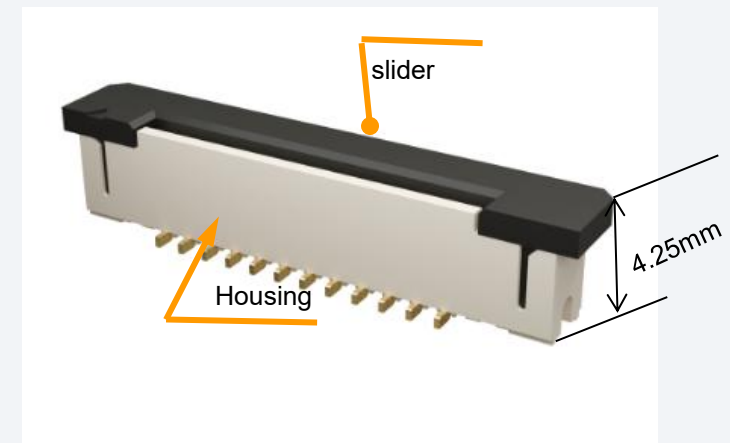
FEATURES

- 1) Drawer type structure, Vertical type
- 2) Robustness design
- 3) High cable retention feature
- 4) Design against solder & flux wicking

PRODUCT NUMBER

F54L-1A7H1-D7B**

PIN_CONT



1.0mm Pitch Slider type ZIF Connector

F54T series

APPLICATION

Automotive, Data, Industrial, Communication, Consumer, and Medical applications etc.

SPECIFICATIONS

- 1) Spacing: 1.0mm
- 2) Contacts: 5 to 30 contacts
(Available: 6,14,16,22,28)
- 3) Height: 5.75 mm
- 4) FPC thickness: 0.3 +/-0.05mm
- 5) Materials:
 - Insulator: Heat-resisting resin(UL 94V-0)
 - Contact: Copper Alloy(Gold flash)
- 6) Current rating: AC/DC 1A
- 7) Voltage rating: AC/DC 125V
- 8) Contact resistance: 20mΩ Max.
- 9) Insulation resistance: 100MΩ Min.
- 10) Operation Temperature range: -40 to 85 degree
- 11) Durability: 30cycles

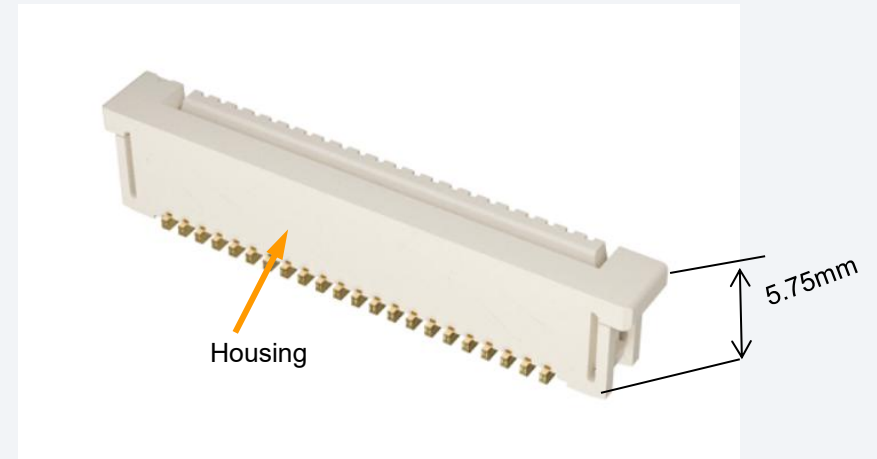
FEATURES

- 1) Drawer type structure, Vertical type
- 2) Robustness design
- 3) High cable retention feature
- 4) Design against solder & flux wicking

PRODUCT NUMBER

F54T-1A7A1-E8C**

PIN_CONT



2.0mm Pitch Non-ZIF Type Connector

Auto-Lock F73V Series

NEW

SPECIFICATIONS

- 1) Spacing: 2.0mm
- 2) Height: 3.0mm
- 3) Contacts: 5 to 16 contacts(Available: 12)
- 4) FPC thickness: 0.4 +/-0.03mm
- 5) Materials:
 - Housing & Actuator: High temp thermal plastic (UL 94V-0)
 - Contact: Copper Alloy(Gold plating)
 - Ground Terminal & Fixing tab: Copper Alloy (Tin plating)
 - Latch: Copper Alloy(Clean)
- 6) Current rating: AC/DC 1.0A/pin
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: Max. 30mΩ(Initial), Δ20mΩ Max.(After test)
- 9) Insulation resistance: 100MΩ Min. at 100VDC
- 10) Operation Temperature range: -40°C~125°C
- 11) Durability: 20cycles
- 12) Terminal retention force: 0.5N/pin MIN.
- 13) Dielectric Withstand Voltage: AC 500V/1 Minute
- 14) FFC Lock Force(With Lock): 20N MIN.
- 15) Insertion Force: Max. 20N
- 16) Test Standard(Vibration): LV214 S1(VW75174) / USCAR-2

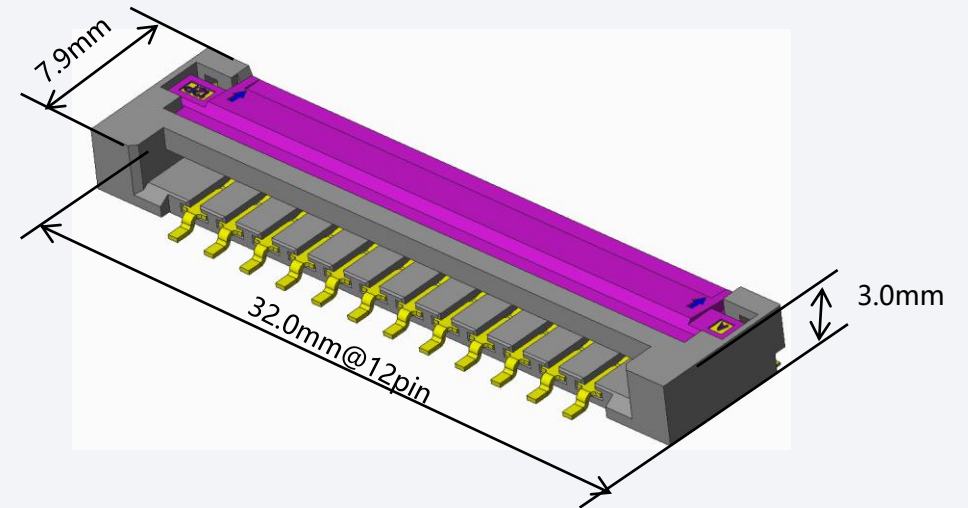
FEATURES

- 1) Right angle, Easy operation with Non-ZIF function
- 2) Locking feature: Single action Push Auto Locking Function, a feeling of clear click at the time of the insertion
- 3) Unlocking feature: Push the Actuator obliquely downward, Push middle of the lever with fingers
- 4) **LV214 S1** and **USCAR-2 T3V2**

PRODUCT NUMBER

F73V-1B7E1-E79**

PIN_CONT



2.0mm Pitch Non-ZIF Type Connector

Auto-Lock F73W Series

NEW

Amphenol
COMMUNICATIONS SOLUTIONS

SPECIFICATIONS

- 1) Spacing: 2.0mm
- 2) Height: 6.25mm
- 3) Contacts: 5 to 16 contacts(Available: 12)
- 4) FPC thickness: 0.4 +/-0.03mm
- 5) Materials:
 - Housing & Actuator: High temp thermal plastic(UL 94V-0)
 - Contact: Copper Alloy (Gold plating)
 - Ground Terminal & Fixing tab: Copper Alloy(Tin plating)
 - Latch: Copper Alloy(Clean)
- 6) Current rating: AC/DC 1.0A/pin
- 7) Voltage rating: AC/DC 50V
- 8) Contact resistance: Max. 30mΩ(Initial), Δ20mΩ Max.(After test)
- 9) Insulation resistance: 100MΩ Min. at 100VDC
- 10) Operation Temperature range: -40°C~125°C
- 11) Durability: 20cycles
- 12) Terminal retention force: 0.5N/pin MIN.
- 13) Dielectric Withstand Voltage: AC 500V/1 Minute
- 14) FFC Lock Force (With Lock): 20N MIN.
- 15) Insertion Force: Max. 20N
- 16) Test Standard(Vibration): LV214 S1(VW75174) / USCAR-2

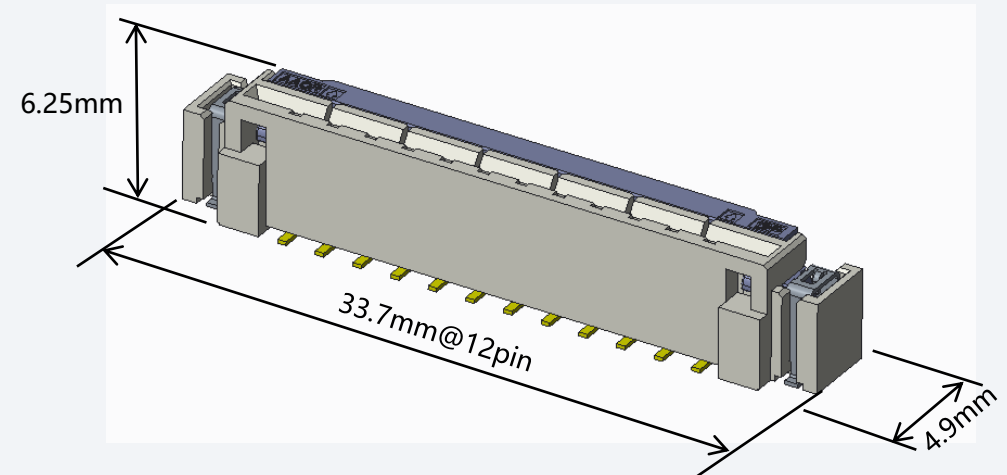
FEATURES

- 1) Vertical, Easy operation with Non-ZIF function
- 2) Locking feature: Single action Push Auto Locking Function, a feeling of clear click at the time of the insertion
- 3) Unlocking feature: Push the Actuator obliquely downward, Push middle of the lever with fingers
- 4) **LV214 S1** and **USCAR-2 T3V2**

PRODUCT NUMBER

F73W-1B7E1-E79**

PIN_CONT



THANK YOU

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